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Interactive comment on "Direct molecular level characterization of different heterogeneous freezing modes on mica" *by* Ahmed Abdelmonem et al.

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The author would like to thank the referee for his time reading the manuscript and, until preparing the final rebuttal on the scientific comments, would like to clarify two points to the referees and readers of ACP:

1. Indeed the statement "the SHG signal is originated from the nonresonant OH stretching vibrations at the interface", in page 2 line 19, is incorrect. However, it should be clear that this is not a "fundamental misunderstanding of the signal generation process by the author" but rather a wording failure, mixed with the definition of water stretching signal in SFG. This should become crystal clear to the reader when reaching to page 6 line 9 when the author started discussing interpretations in terms

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of “electric dipolar contribution” as an origin of the signal. The inadvertent failure was simply arisen from being writing a SFG manuscript on the same topic in the same time.

2. Concerning the lingual level of the manuscript, as the author is not a native English speaker the manuscript was revised by the “language service department” at the KIT before submission.

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